

Jianfang F Wang

List of Publications by Year in descending order

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271
papers

33,678
citations

4146

87
h-index

3830

178
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286
all docs

286
docs citations

286
times ranked

31626
citing authors

#	ARTICLE	IF	CITATIONS
1	Indium phosphide nanowires as building blocks for nanoscale electronic and optoelectronic devices. <i>Nature</i> , 2001, 409, 66-69.	27.8	3,256
2	Growth of nanowire superlattice structures for nanoscale photonics and electronics. <i>Nature</i> , 2002, 415, 617-620.	27.8	2,562
3	Gold nanorods and their plasmonic properties. <i>Chemical Society Reviews</i> , 2013, 42, 2679-2724.	38.1	1,576
4	Shape- and Size-Dependent Refractive Index Sensitivity of Gold Nanoparticles. <i>Langmuir</i> , 2008, 24, 5233-5237.	3.5	1,126
5	Diameter-controlled synthesis of single-crystal silicon nanowires. <i>Applied Physics Letters</i> , 2001, 78, 2214-2216.	3.3	1,078
6	Metal/Semiconductor Hybrid Nanostructures for Plasmon-Enhanced Applications. <i>Advanced Materials</i> , 2014, 26, 5274-5309.	21.0	926
7	New Reaction Pathway Induced by Plasmon for Selective Benzyl Alcohol Oxidation on BiOCl Possessing Oxygen Vacancies. <i>Journal of the American Chemical Society</i> , 2017, 139, 3513-3521.	13.7	693
8	Composite mesostructures by nano-confinement. <i>Nature Materials</i> , 2004, 3, 816-822.	27.5	626
9	Plasmonic gold mushroom arrays with refractive index sensing figures of merit approaching the theoretical limit. <i>Nature Communications</i> , 2013, 4, 2381.	12.8	612
10	Plasmonic Harvesting of Light Energy for Suzuki Coupling Reactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 5588-5601.	13.7	597
11	Efficient Ammonia Electrosynthesis from Nitrate on Strained Ruthenium Nanoclusters. <i>Journal of the American Chemical Society</i> , 2020, 142, 7036-7046.	13.7	542
12	Tailoring Longitudinal Surface Plasmon Wavelengths, Scattering and Absorption Cross Sections of Gold Nanorods. <i>ACS Nano</i> , 2008, 2, 677-686.	14.6	527
13	Understanding the Photothermal Conversion Efficiency of Gold Nanocrystals. <i>Small</i> , 2010, 6, 2272-2280.	10.0	505
14	Active Plasmonics: Principles, Structures, and Applications. <i>Chemical Reviews</i> , 2018, 118, 3054-3099.	47.7	483
15	Strong Polarization Dependence of Plasmon-Enhanced Fluorescence on Single Gold Nanorods. <i>Nano Letters</i> , 2009, 9, 3896-3903.	9.1	388
16	Plasmon-Controlled Fluorescence: Beyond the Intensity Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 191-202.	4.6	388
17	High-Efficiency "Working-in-Tandem" Nitrogen Photofixation Achieved by Assembling Plasmonic Gold Nanocrystals on Ultrathin Titania Nanosheets. <i>Journal of the American Chemical Society</i> , 2018, 140, 8497-8508.	13.7	382
18	Growth of Tetrahedral Gold Nanocrystals with High-Index Facets. <i>Journal of the American Chemical Society</i> , 2009, 131, 16350-16351.	13.7	357

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19	Selective Shortening of Single-Crystalline Gold Nanorods by Mild Oxidation. <i>Journal of the American Chemical Society</i> , 2006, 128, 5352-5353.	13.7	305
20	Heteroepitaxial Growth of High-Index-Faceted Palladium Nanoshells and Their Catalytic Performance. <i>Journal of the American Chemical Society</i> , 2011, 133, 1106-1111.	13.7	287
21	Synthesis and optical properties of gallium arsenide nanowires. <i>Applied Physics Letters</i> , 2000, 76, 1116-1118.	3.3	279
22	Synthetic Control of the Diameter and Length of Single Crystal Semiconductor Nanowires. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4062-4064.	2.6	265
23	Plasmon-enhanced chemical reactions. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5790.	10.3	257
24	pH-Controlled Reversible Assembly and Disassembly of Gold Nanorods. <i>Small</i> , 2008, 4, 1287-1292.	10.0	256
25	Ordered Gold Nanostructure Assemblies Formed By Droplet Evaporation. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 9685-9690.	13.8	244
26	A General Approach to Mesoporous Metal Oxide Microspheres Loaded with Noble Metal Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6406-6410.	13.8	237
27	Gold Nanorods: The Most Versatile Plasmonic Nanoparticles. <i>Chemical Reviews</i> , 2021, 121, 13342-13453.	47.7	237
28	High-Photoluminescence-Yield Gold Nanocubes: For Cell Imaging and Photothermal Therapy. <i>ACS Nano</i> , 2010, 4, 113-120.	14.6	233
29	(Gold Core)@(Ceria Shell) Nanostructures for Plasmon-Enhanced Catalytic Reactions under Visible Light. <i>ACS Nano</i> , 2014, 8, 8152-8162.	14.6	230
30	Unraveling the Evolution and Nature of the Plasmons in (Au Core)@(Ag Shell) Nanorods. <i>Advanced Materials</i> , 2012, 24, OP200-7.	21.0	225
31	Site-Selective Growth of Crystalline Ceria with Oxygen Vacancies on Gold Nanocrystals for Near-Infrared Nitrogen Photofixation. <i>Journal of the American Chemical Society</i> , 2019, 141, 5083-5086.	13.7	222
32	High Internal Phase Emulsions Stabilized Solely by Microgel Particles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8490-8493.	13.8	221
33	Size-Dependent Photoluminescence from Single Indium Phosphide Nanowires. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4036-4039.	2.6	215
34	Production of Monodisperse Gold Nanobipyramids with Number Percentages Approaching 100% and Evaluation of Their Plasmonic Properties. <i>Advanced Optical Materials</i> , 2015, 3, 801-812.	7.3	215
35	Porous Single-Crystalline Palladium Nanoparticles with High Catalytic Activities. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4872-4876.	13.8	206
36	Templated Synthesis of Highly Ordered Mesostructured Nanowires and Nanowire Arrays. <i>Nano Letters</i> , 2004, 4, 2337-2342.	9.1	205

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37	Growth of Gold Bipyramids with Improved Yield and Their Curvature-Directed Oxidation. <i>Small</i> , 2007, 3, 2103-2113.	10.0	203
38	<i>In vitro</i> effect of CTAB- and PEG-coated gold nanorods on the induction of eryptosis/erythroptosis in human erythrocytes. <i>Nanotoxicology</i> , 2012, 6, 847-856.	3.0	194
39	Plasmon-molecule interactions. <i>Nano Today</i> , 2010, 5, 494-505.	11.9	193
40	A General Approach to the Synthesis of Gold-Metal Sulfide Core-Shell and Heterostructures. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2881-2885.	13.8	191
41	Observing Plasmonic-Molecular Resonance Coupling on Single Gold Nanorods. <i>Nano Letters</i> , 2010, 10, 77-84.	9.1	180
42	(Gold core)/(titania shell) nanostructures for plasmon-enhanced photon harvesting and generation of reactive oxygen species. <i>Energy and Environmental Science</i> , 2014, 7, 3431-3438.	30.8	180
43	Coupling between Molecular and Plasmonic Resonances in Freestanding Dye-Gold Nanorod Hybrid Nanostructures. <i>Journal of the American Chemical Society</i> , 2008, 130, 6692-6693.	13.7	179
44	Glutathione- and Cysteine-Induced Transverse Overgrowth on Gold Nanorods. <i>Journal of the American Chemical Society</i> , 2007, 129, 6402-6404.	13.7	178
45	Advanced Plasmonic Materials for Dynamic Color Display. <i>Advanced Materials</i> , 2018, 30, e1704338.	21.0	176
46	Time-Temperature Indicator for Perishable Products Based on Kinetically Programmable Ag Overgrowth on Au Nanorods. <i>ACS Nano</i> , 2013, 7, 4561-4568.	14.6	173
47	Angle- and Energy-Resolved Plasmon Coupling in Gold Nanorod Dimers. <i>ACS Nano</i> , 2010, 4, 3053-3062.	14.6	158
48	Growth of Monodisperse Gold Nanospheres with Diameters from 20 nm to 220 nm and Their Core/Satellite Nanostructures. <i>Advanced Optical Materials</i> , 2014, 2, 65-73.	7.3	158
49	Emerging Applications of Plasmons in Driving CO ₂ Reduction and N ₂ Fixation. <i>Advanced Materials</i> , 2018, 30, e1802227.	21.0	155
50	A General Route to Diverse Mesoporous Metal Oxide Submicrospheres with Highly Crystalline Frameworks. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8682-8686.	13.8	149
51	Nanonecklaces assembled from gold rods, spheres, and bipyramids. <i>Chemical Communications</i> , 2007, , 1816.	4.1	146
52	Dielectric nanoresonators for light manipulation. <i>Physics Reports</i> , 2017, 701, 1-50.	25.6	145
53	Anisotropic Overgrowth of Metal Heterostructures Induced by a Site-Selective Silica Coating. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10344-10348.	13.8	139
54	Nanoscale surface chemistry directs the tunable assembly of silver octahedra into three two-dimensional plasmonic superlattices. <i>Nature Communications</i> , 2015, 6, 6990.	12.8	137

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55	Experimental Evidence of Plasmon-Directed Polarized Emission from Gold Nanorod-Fluorophore Hybrid Nanostructures. <i>Nano Letters</i> , 2011, 11, 2296-2303.	9.1	135
56	Gold Nanobipyramid-Directed Growth of Length-Variable Silver Nanorods with Multipolar Plasmon Resonances. <i>ACS Nano</i> , 2015, 9, 7523-7535.	14.6	135
57	Gold Nanobipyramids: An Emerging and Versatile Type of Plasmonic Nanoparticles. <i>Accounts of Chemical Research</i> , 2019, 52, 2136-2146.	15.6	133
58	Shape-Dependent Refractive Index Sensitivities of Gold Nanocrystals with the Same Plasmon Resonance Wavelength. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17691-17697.	3.1	130
59	(Gold Nanorod Core)/(Polyaniline Shell) Plasmonic Switches with Large Plasmon Shifts and Modulation Depths. <i>Advanced Materials</i> , 2014, 26, 3282-3289.	21.0	129
60	Growth of Gold Nanorods and Bipyramids Using CTEAB Surfactant. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16377-16383.	2.6	127
61	Au/Ag core-shell nanocuboids for high-efficiency organic solar cells with broadband plasmonic enhancement. <i>Energy and Environmental Science</i> , 2016, 9, 898-905.	30.8	127
62	Observation of the Fano Resonance in Gold Nanorods Supported on High-Dielectric-Constant Substrates. <i>ACS Nano</i> , 2011, 5, 6754-6763.	14.6	124
63	Plasmon Coupling in Clusters Composed of Two-Dimensionally Ordered Gold Nanocubes. <i>Small</i> , 2009, 5, 2111-2119.	10.0	119
64	Universal Scaling and Fano Resonance in the Plasmon Coupling between Gold Nanorods. <i>ACS Nano</i> , 2011, 5, 5976-5986.	14.6	119
65	Gold Nanobipyramid-Supported Silver Nanostructures with Narrow Plasmon Linewidths and Improved Chemical Stability. <i>Advanced Functional Materials</i> , 2016, 26, 341-352.	14.9	119
66	Photocurrent Enhancement of HgTe Quantum Dot Photodiodes by Plasmonic Gold Nanorod Structures. <i>ACS Nano</i> , 2014, 8, 8208-8216.	14.6	116
67	Pure Protein Scaffolds from Pickering High Internal Phase Emulsion Template. <i>Macromolecular Rapid Communications</i> , 2013, 34, 169-174.	3.9	114
68	Refractive Index Sensitivities of Noble Metal Nanocrystals: The Effects of Multipolar Plasmon Resonances and the Metal Type. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7997-8004.	3.1	113
69	Metal Nanocrystal-Embedded Hollow Mesoporous TiO ₂ and ZrO ₂ Microspheres Prepared with Polystyrene Nanospheres as Carriers and Templates. <i>Advanced Functional Materials</i> , 2013, 23, 2137-2144.	14.9	112
70	Photon energy upconversion through thermal radiation with the power efficiency reaching 16%. <i>Nature Communications</i> , 2014, 5, 5669.	12.8	111
71	Nanoplasmonics. <i>Chemical Society Reviews</i> , 2014, 43, 3820.	38.1	107
72	Distinct Plasmonic Manifestation on Gold Nanorods Induced by the Spatial Perturbation of Small Gold Nanospheres. <i>Nano Letters</i> , 2012, 12, 1424-1430.	9.1	106

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73	Structure-Selective Synthesis of Mesostructured/Mesoporous Silica Nanofibers. <i>Journal of the American Chemical Society</i> , 2003, 125, 13966-13967.	13.7	105
74	Load-Independent Friction: MoO ₃ Nanocrystal Lubricants. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8405-8409.	2.6	102
75	Colloidal Moderate-Refractive-Index Cu ₂ O Nanospheres as Visible-Region Nanoantennas with Electromagnetic Resonance and Directional Light-Scattering Properties. <i>Advanced Materials</i> , 2015, 27, 7432-7439.	21.0	102
76	Homogeneous Immunosorbent Assay Based on Single-Particle Enumeration Using Upconversion Nanoparticles for the Sensitive Detection of Cancer Biomarkers. <i>Analytical Chemistry</i> , 2018, 90, 4807-4814.	6.5	101
77	Active Electrochemical Plasmonic Switching on Polyaniline-Coated Gold Nanocrystals. <i>Advanced Materials</i> , 2017, 29, 1604862.	21.0	99
78	Effects of Dyes, Gold Nanocrystals, pH, and Metal Ions on Plasmonic and Molecular Resonance Coupling. <i>Journal of the American Chemical Society</i> , 2010, 132, 4806-4814.	13.7	97
79	Mass-Based Photothermal Comparison Among Gold Nanocrystals, PbS Nanocrystals, Organic Dyes, and Carbon Black. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8909-8915.	3.1	97
80	Multiple Magnetic Mode-Based Fano Resonance in Split-Ring Resonator/Disk Nanocavities. <i>ACS Nano</i> , 2013, 7, 11071-11078.	14.6	97
81	Plasmon-Controlled Förster Resonance Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8287-8296.	3.1	96
82	Realization of Red Plasmon Shifts up to ~4900 nm by AgPd-Tipping Elongated Au Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 13837-13846.	13.7	96
83	One-Step Synthesis of Large-Aspect-Ratio Single-Crystalline Gold Nanorods by Using CTPAB and CTBAB Surfactants. <i>Chemistry - A European Journal</i> , 2007, 13, 2929-2936.	3.3	94
84	Heteroepitaxial Growth of Core-Shell and Core-Multishell Nanocrystals Composed of Palladium and Gold. <i>Small</i> , 2010, 6, 2566-2575.	10.0	94
85	Selective Pd Deposition on Au Nanobipyramids and Pd Site-Dependent Plasmonic Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2017, 27, 1700016.	14.9	94
86	Plasmon-induced modulation of the emission spectra of the fluorescent molecules near gold nanorods. <i>Nanoscale</i> , 2011, 3, 3849.	5.6	93
87	Cellular uptake behaviour, photothermal therapy performance, and cytotoxicity of gold nanorods with various coatings. <i>Nanoscale</i> , 2014, 6, 11462-11472.	5.6	92
88	Thickness Control Produces Gold Nanoplates with Their Plasmon in the Visible and Near-Infrared Regions. <i>Advanced Optical Materials</i> , 2016, 4, 76-85.	7.3	91
89	The morphology and surface charge-dependent cellular uptake efficiency of upconversion nanostructures revealed by single-particle optical microscopy. <i>Chemical Science</i> , 2018, 9, 5260-5269.	7.4	91
90	Plasmonic Percolation: Plasmon-Manifested Dielectric-to-Metal Transition. <i>ACS Nano</i> , 2012, 6, 7162-7171.	14.6	89

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91	A Gold Nanocrystal/Poly(dimethylsiloxane) Composite for Plasmonic Heating on Microfluidic Chips. <i>Advanced Materials</i> , 2012, 24, 94-98.	21.0	88
92	Effect of the Dielectric Properties of Substrates on the Scattering Patterns of Gold Nanorods. <i>ACS Nano</i> , 2011, 5, 4865-4877.	14.6	87
93	Plasmonicâ€“Molecular Resonance Coupling: Plasmonic Splitting versus Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14088-14095.	3.1	85
94	Bifunctional Au@Pt coreâ€“shell nanostructures for in situ monitoring of catalytic reactions by surface-enhanced Raman scattering spectroscopy. <i>Nanoscale</i> , 2014, 6, 9063-9070.	5.6	81
95	Curvature-Directed Assembly of Gold Nanocubes, Nanobranches, and Nanospheres. <i>Langmuir</i> , 2009, 25, 1692-1698.	3.5	80
96	Plasmonic Properties of Single Multispiked Gold Nanostars: Correlating Modeling with Experiments. <i>Langmuir</i> , 2012, 28, 8979-8984.	3.5	80
97	Single-Crystalline Gold Nanodisks on WS ₂ Mono- and Multilayers for Strong Coupling at Room Temperature. <i>ACS Photonics</i> , 2019, 6, 994-1001.	6.6	80
98	â€œShipâ€“inâ€“Bottleâ€“Growth of Noble Metal Nanostructures. <i>Advanced Functional Materials</i> , 2012, 22, 4526-4532.	14.9	77
99	Synthesis of Absorption-Dominant Small Gold Nanorods and Their Plasmonic Properties. <i>Langmuir</i> , 2015, 31, 7418-7426.	3.5	76
100	AgInS ₂ /In ₂ S ₃ heterostructure sensitization of Escherichia coli for sustainable hydrogen production. <i>Nano Energy</i> , 2018, 46, 234-240.	16.0	76
101	Colloidal Gold Nanocups with Orientationâ€“Dependent Plasmonic Properties. <i>Advanced Materials</i> , 2016, 28, 6322-6331.	21.0	74
102	Au nanoparticle-embedded, nitrogen-deficient hollow mesoporous carbon nitride spheres for nitrogen photofixation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16218-16231.	10.3	74
103	Localized and Continuous Tuning of Monolayer MoS ₂ Photoluminescence Using a Single Shapeâ€“Controlled Ag Nanoantenna. <i>Advanced Materials</i> , 2016, 28, 701-706.	21.0	73
104	Porous Pt Nanoparticles with High Nearâ€“Infrared Photothermal Conversion Efficiencies for Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2016, 5, 3165-3172.	7.6	71
105	Enhanced CO ₂ reduction and valuable C ₂₊ chemical production by a CdS-photosynthetic hybrid system. <i>Nanoscale</i> , 2019, 11, 9296-9301.	5.6	71
106	Synthesis of Mesoporous Silica Nanofibers with Controlled Pore Architectures. <i>Chemistry of Materials</i> , 2004, 16, 5169-5181.	6.7	70
107	Coating fabrics with gold nanorods for colouring, UV-protection, and antibacterial functions. <i>Nanoscale</i> , 2013, 5, 788-795.	5.6	69
108	Nanoquartz in Late Permian C1 coal and the high incidence of female lung cancer in the Pearl River Origin area: a retrospective cohort study. <i>BMC Public Health</i> , 2008, 8, 398.	2.9	66

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109	Aerosol-Sprayed Gold/Ceria Photocatalyst with Superior Plasmonic Hot Electron-Enabled Visible-Light Activity. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2560-2571.	8.0	65
110	Symmetry-Broken Au-Cu Heterostructures and their Tandem Catalysis Process in Electrochemical CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2021, 31, 2101255.	14.9	64
111	Fano Resonance in (Gold Core)-(Dielectric Shell) Nanostructures without Symmetry Breaking. <i>Small</i> , 2012, 8, 1503-1509.	10.0	63
112	Emulsion-Templated Liquid Core-Polymer Shell Microcapsule Formation. <i>Langmuir</i> , 2009, 25, 2572-2574.	3.5	62
113	Resonance-Coupling-Based Plasmonic Switches. <i>Small</i> , 2010, 6, 2514-2519.	10.0	62
114	Ultrasensitive Plasmonic Response of Bimetallic Au/Pd Nanostructures to Hydrogen. <i>Advanced Functional Materials</i> , 2014, 24, 7328-7337.	14.9	61
115	A Chemical Approach To Break the Planar Configuration of Ag Nanocubes into Tunable Two-Dimensional Metasurfaces. <i>Nano Letters</i> , 2016, 16, 3872-3878.	9.1	61
116	Biohybrid photoheterotrophic metabolism for significant enhancement of biological nitrogen fixation in pure microbial cultures. <i>Energy and Environmental Science</i> , 2019, 12, 2185-2191.	30.8	61
117	Photodriven Disproportionation of Nitrogen and Its Change to Reductive Nitrogen Photofixation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 927-936.	13.8	61
118	Nanopore Extrusion-Induced Transition from Spherical to Cylindrical Block Copolymer Micelles. <i>Journal of the American Chemical Society</i> , 2009, 131, 16650-16651.	13.7	60
119	A Schottky-Barrier-Free Plasmonic Semiconductor Photocatalyst for Nitrogen Fixation in a One-Step Two-Phase Manner. <i>Advanced Materials</i> , 2022, 34, e2104226.	21.0	60
120	Macroscale Colloidal Noble Metal Nanocrystal Arrays and Their Refractive Index-Based Sensing Characteristics. <i>Small</i> , 2014, 10, 802-811.	10.0	59
121	Unusual and Tunable One-Photon Nonlinearity in Gold-Dye Plexcitonic Fano Systems. <i>Nano Letters</i> , 2015, 15, 2705-2710.	9.1	59
122	Direct Monitoring of Cell Membrane Vesiculation with 2D AuNP@MnO ₂ Nanosheet Supraparticles at the Single-Particle Level. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10542-10546.	13.8	58
123	Correlating the Plasmonic and Structural Evolutions during the Sulfidation of Silver Nanocubes. <i>ACS Nano</i> , 2013, 7, 9354-9365.	14.6	57
124	Understanding the roles of plasmonic Au nanocrystal size, shape, aspect ratio and loading amount in Au/g-C ₃ N ₄ hybrid nanostructures for photocatalytic hydrogen generation. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22296-22307.	2.8	57
125	Dopamine-Mediated Assembly of Citrate-Capped Plasmonic Nanoparticles into Stable Core-Shell Nanoworms for Intracellular Applications. <i>ACS Nano</i> , 2019, 13, 5864-5884.	14.6	57
126	Crystalline structure-dependent growth of bimetallic nanostructures. <i>Nanoscale</i> , 2012, 4, 7070.	5.6	56

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127	Porous Carbon and Carbon/Metal Oxide Microfibers with Well-Controlled Pore Structure and Interface. <i>Journal of the American Chemical Society</i> , 2008, 130, 5034-5035.	13.7	55
128	Multifunctional Mesostructured Silica Microspheres from an Ultrasonic Aerosol Spray. <i>Advanced Functional Materials</i> , 2008, 18, 2956-2962.	14.9	53
129	Ultrasmall Mode Volumes in Plasmonic Cavities of Nanoparticle-Mirror Structures. <i>Small</i> , 2016, 12, 5190-5199.	10.0	53
130	Aerosol-spray metal phosphide microspheres with bifunctional electrocatalytic properties for water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4783-4792.	10.3	53
131	Synergistic Nanozymetic Activity of Hybrid Gold Bipyramid-Molybdenum Disulfide Core@Shell Nanostructures for Two-Photon Imaging and Anticancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42068-42076.	8.0	53
132	Incorporation of Gold Nanorods and Their Enhancement of Fluorescence in Mesostructured Silica Thin Films. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18895-18903.	3.1	52
133	Single-Crystal Mesoporous Silica Ribbons. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 332-336.	13.8	50
134	Titanium-Coated Gold Nano-Bipyramids for Blocking Autophagy Flux and Sensitizing Cancer Cells to Proteasome Inhibitor-Induced Death. <i>Advanced Science</i> , 2018, 5, 1700585.	11.2	50
135	Electrochemically controlled metasurfaces with high-contrast switching at visible frequencies. <i>Science Advances</i> , 2021, 7, .	10.3	49
136	Metallic-Phase MoS ₂ Nanopetals with Enhanced Electrocatalytic Activity for Hydrogen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13435-13442.	6.7	48
137	Circular Gold Nanodisks with Synthetically Tunable Diameters and Thicknesses. <i>Advanced Functional Materials</i> , 2018, 28, 1705516.	14.9	47
138	Comparison of the plasmonic performances between lithographically fabricated and chemically grown gold nanorods. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10861-10870.	2.8	46
139	Pd films on soft substrates: a visual, high-contrast and low-cost optical hydrogen sensor. <i>Light: Science and Applications</i> , 2019, 8, 4.	16.6	46
140	Site-Selective Deposition of Metal-Organic Frameworks on Gold Nanobipyramids for Surface-Enhanced Raman Scattering. <i>Nano Letters</i> , 2021, 21, 8205-8212.	9.1	46
141	Role of shape in substrate-induced plasmonic shift and mode uncovering on gold nanocrystals. <i>Nanoscale</i> , 2016, 8, 17645-17657.	5.6	45
142	Self-assembly of Au@Ag core-shell nanocuboids into staircase superstructures by droplet evaporation. <i>Nanoscale</i> , 2018, 10, 142-149.	5.6	44
143	Magnetic Plasmon-Enhanced Second-Harmonic Generation on Colloidal Gold Nanocups. <i>Nano Letters</i> , 2019, 19, 2005-2011.	9.1	44
144	Directional Control of Light with Nanoantennas. <i>Advanced Optical Materials</i> , 2021, 9, .	7.3	44

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145	Ultrasonic aerosol spray-assisted preparation of TiO ₂ /In ₂ O ₃ composite for visible-light-driven photocatalysis. <i>Journal of Catalysis</i> , 2014, 310, 84-90.	6.2	43
146	Room temperature synthesis of a highly active Cu/Cu ₂ O photocathode for photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13736-13741.	10.3	43
147	Aerosol-spray diverse mesoporous metal oxides from metal nitrates. <i>Scientific Reports</i> , 2015, 5, 9923.	3.3	42
148	Nanoantennas Sandwiched Graphene with Giant Spectral Tuning in the Visible-Near-Infrared Region. <i>Advanced Optical Materials</i> , 2014, 2, 162-170.	7.3	39
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